

SLIDING STRUCTURE FOR SHAFT MEMBER WITH IMPROVED ABRASION  
RESISTANCE AND INJECTOR

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ABSTRACT OF THE DISCLOSURE

10 In a sliding structure in which a shaft member is  
retained slidably in a guide hole, the lack of an oil  
film caused by the edge contact of the shaft member to  
which a pressing load in the axial direction is applied  
is prevented. With the fact being taken into account that  
15 end portions 25c1 and 25c2, which are always in slidable  
contact with a side surface 1232a of a guide hole 1232,  
of a side surface 25c of a shaft member 251 are the  
partial edge portion, a plurality of labyrinth grooves  
2501 and 2502 are formed in the end portions 25c1 and  
25c2, respectively, thereby it is possible for an oil  
20 film to cover the entire contact portion without  
increasing the groove width extremely. Because the groove  
width is not increased extremely, the length of the  
sliding portions can be ensured.